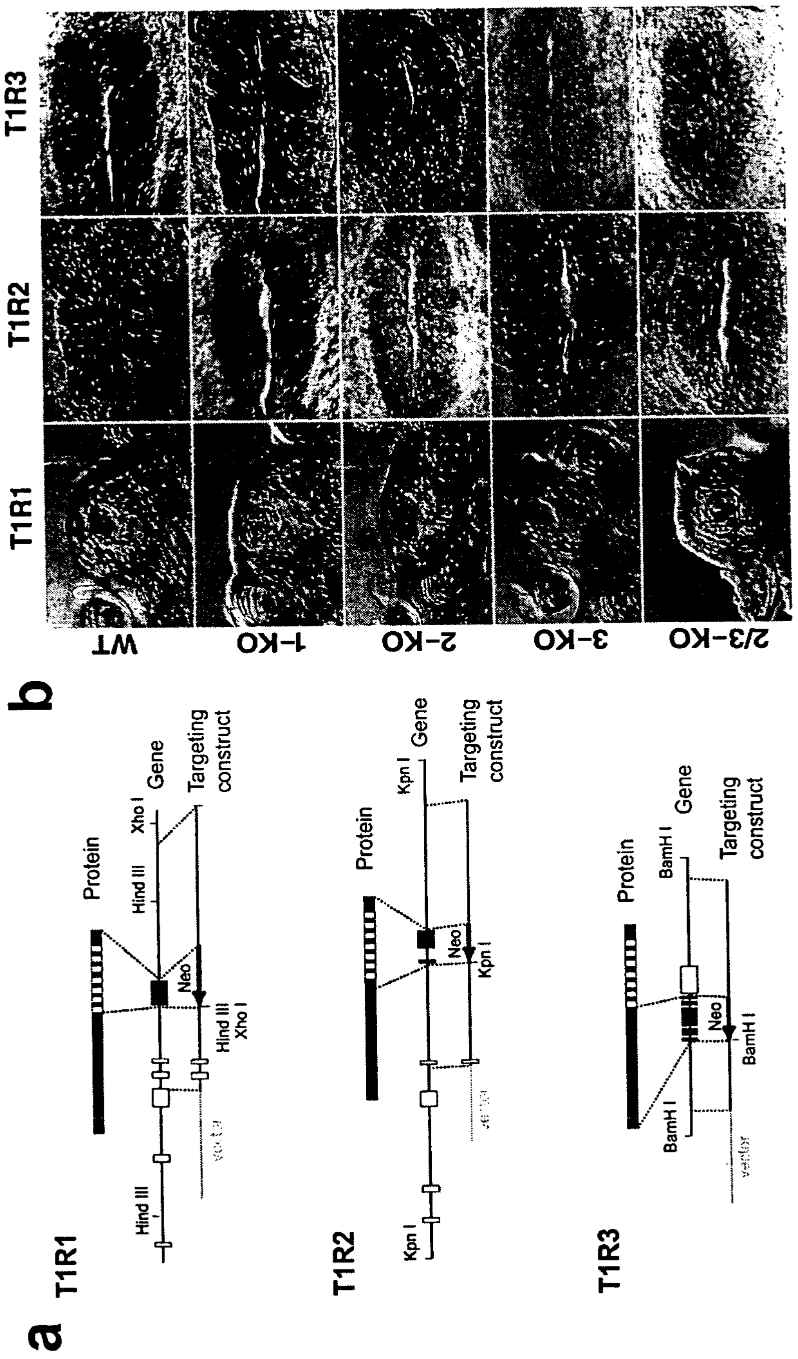
a
T1R1
Protein
Hind III
Hind III
Xho I
Gene
Neo
Hind III
Xho I
Targeting construct
vector
T1R2
Protein
Kpn I
Kpn I
Gene
Neo
Kpn I
Targeting construct
vector
T1R3
Protein
BamH I
BamH I
Gene
Neo
BamH I
Targeting construct
vector
b
T1R1
T1R2
T1R3
WT
1-KO
2-KO
3-KO
2/3-KO

Figure 1

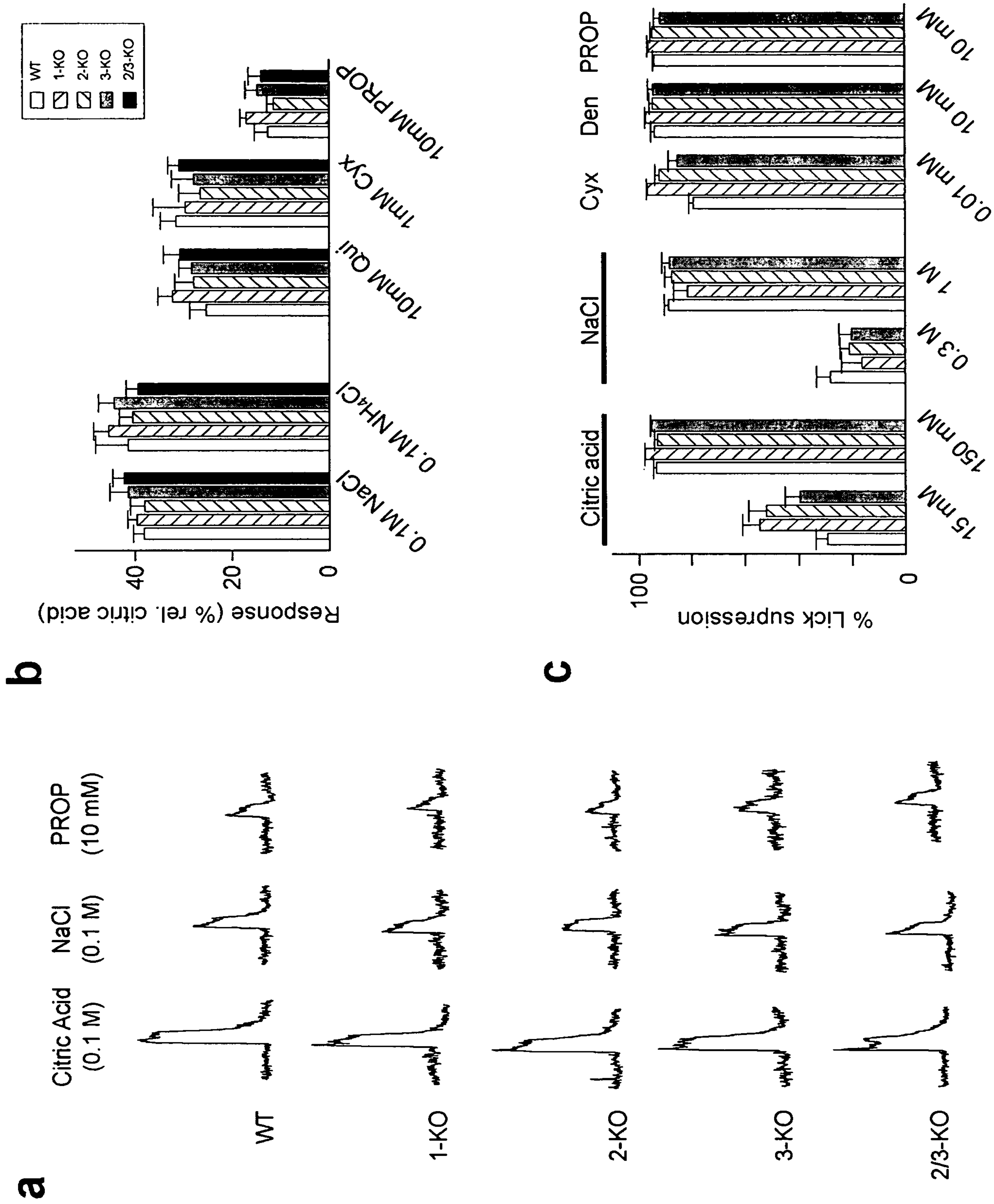
a
WT
1-KO
2-KO
3-KO
2/3-KO
Citric Acid (0.1 M)
NaCl (0.1 M)
PROP (10 mM)
b
Response (% rel. citric acid)
0
20
40
0.1M NaCl
0.1M NH4Cl
10mM Qui
1mM Cyx
10mM PROP
WT
1-KO
2-KO
3-KO
2/3-KO
c
% Lick supression
0
100
Citric acid
NaCl
Cyx
Den
PROP
15 mM
150 mM
0.3 M
1 M
0.01 mM
10 mM
10 mM

Figure 2

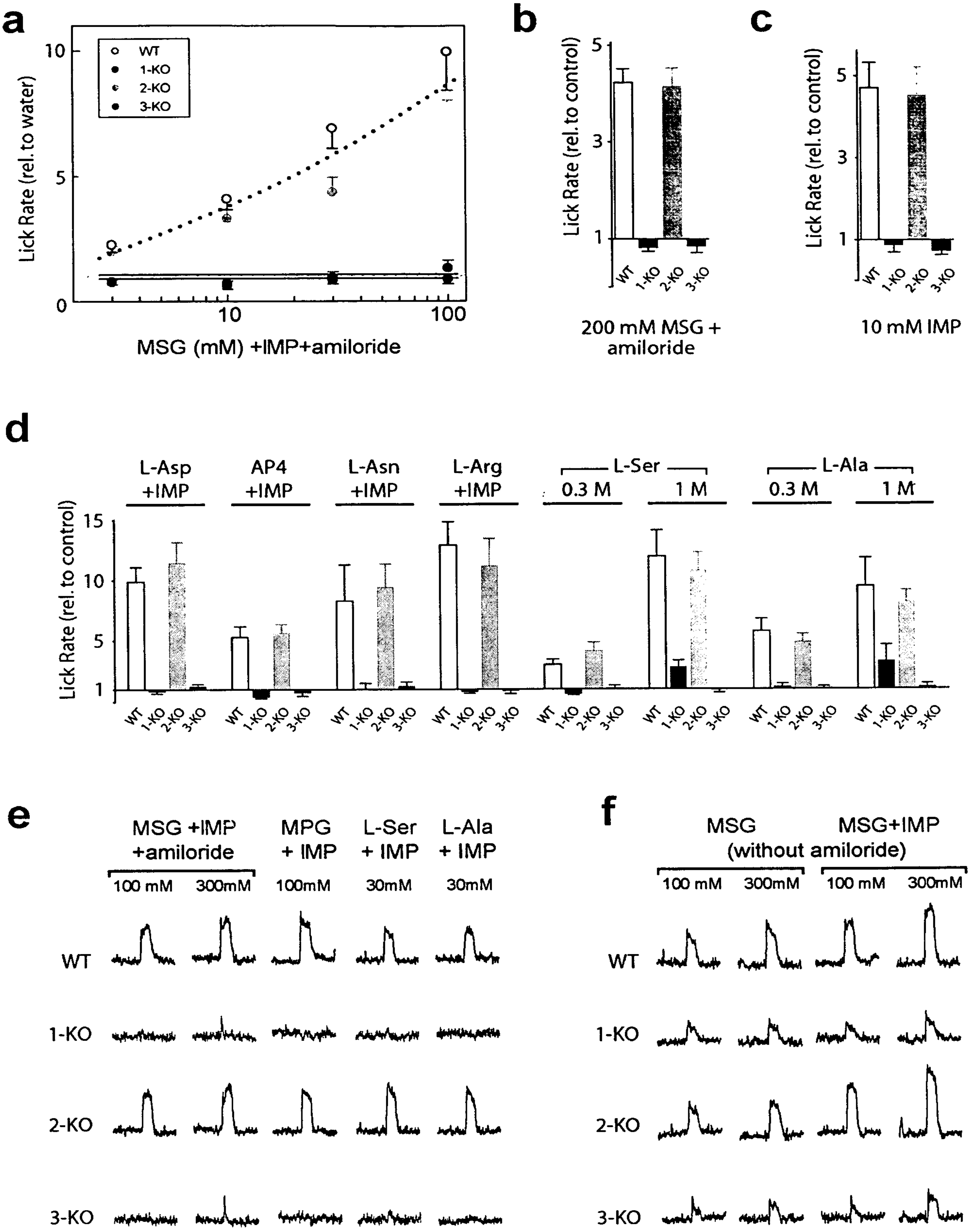
a
Lick Rate (rel. to water)
10
5
0
10
100
MSG (mM) +IMP+amiloride
WT
1-KO
2-KO
3-KO
b
Lick Rate (rel. to control)
5
3
1
WT
1-KO
2-KO
3-KO
200 mM MSG + amiloride
c
Lick Rate (rel. to control)
5
3
1
WT
1-KO
2-KO
3-KO
10 mM IMP
d
L-Asp +IMP
AP4 +IMP
L-Asn +IMP
L-Arg +IMP
L-Ser
0.3 M
1 M
L-Ala
0.3 M
1 M
Lick Rate (rel. to control)
15
10
5
1
WT
1-KO
2-KO
3-KO
e
MSG +IMP +amiloride
MPG + IMP
L-Ser + IMP
L-Ala + IMP
100 mM
300mM
100mM
30mM
30mM
WT
1-KO
2-KO
3-KO
f
MSG
MSG+IMP
(without amiloride)
100 mM
300mM
100 mM
300mM
WT
1-KO
2-KO
3-KO

Figure 3

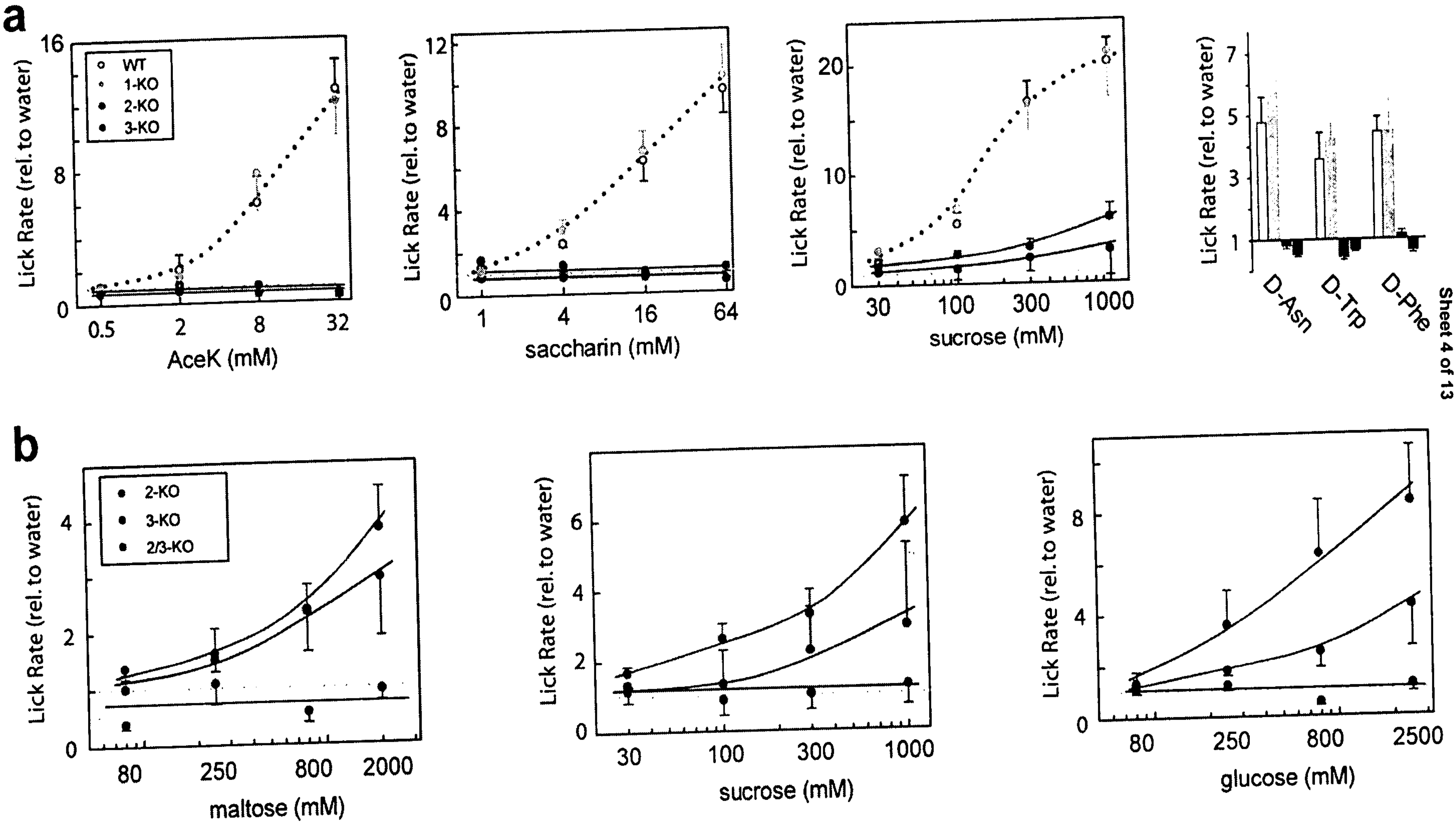
a
Lick Rate (rel. to water)
16
8
0
WT
1-KO
2-KO
3-KO
0.5
2
8
32
AceK (mM)
12
8
4
0
1
4
16
64
saccharin (mM)
20
10
0
30
100
300
1000
sucrose (mM)
7
5
3
1
D-Asn
D-Trp
D-Phe
b
4
2
0
2-KO
3-KO
2/3-KO
80
250
800
2000
maltose (mM)
6
4
2
0
30
100
300
1000
sucrose (mM)
8
4
0
80
250
800
2500
glucose (mM)

Figure 4

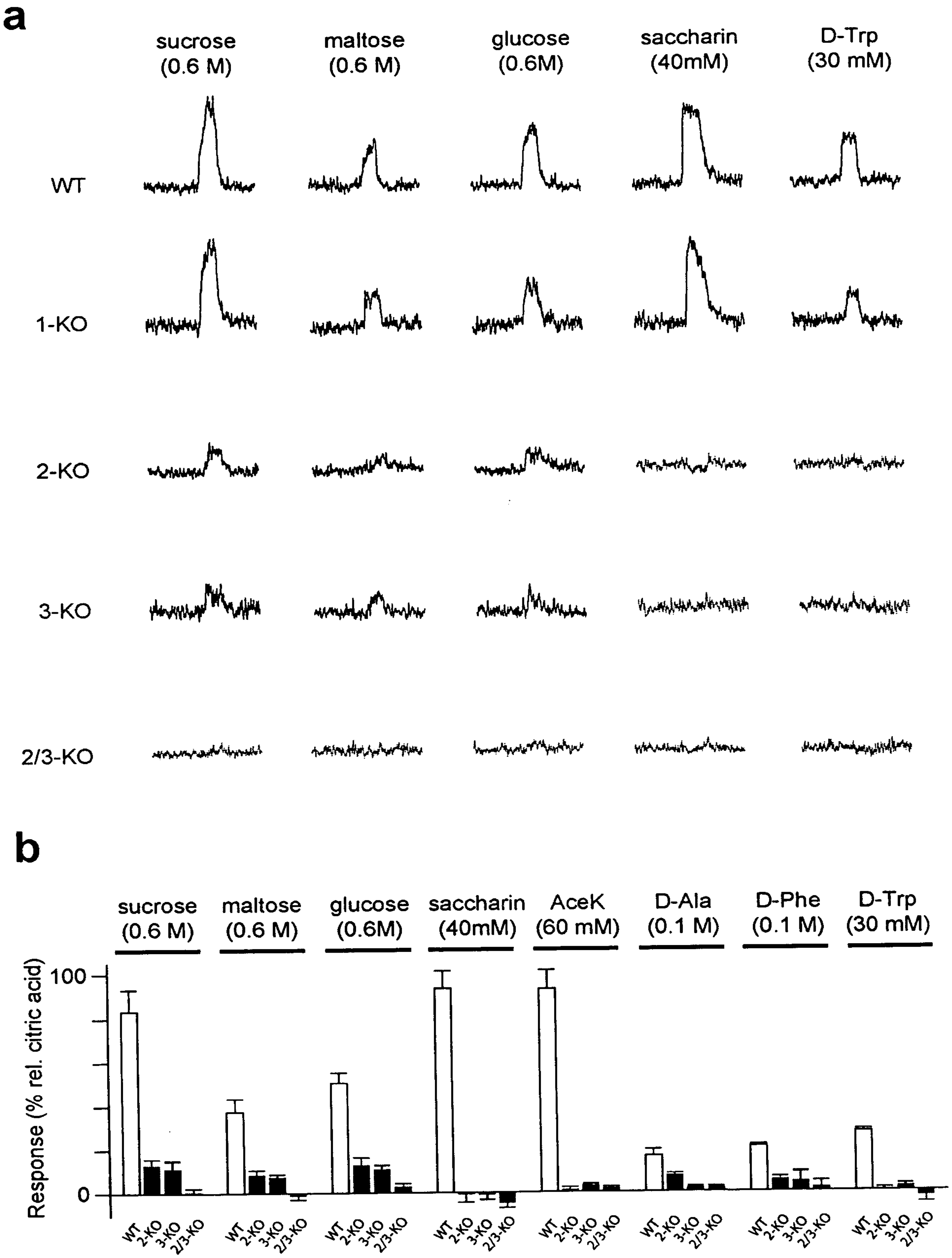
a
sucrose (0.6 M)
maltose (0.6 M)
glucose (0.6M)
saccharin (40mM)
D-Trp (30 mM)
WT
1-KO
2-KO
3-KO
2/3-KO
b
sucrose (0.6 M)
maltose (0.6 M)
glucose (0.6M)
saccharin (40mM)
AceK (60 mM)
D-Ala (0.1 M)
D-Phe (0.1 M)
D-Trp (30 mM)
Response (% rel. citric acid)
100
0
WT
2-KO
3-KO
2/3-KO

Figure 5

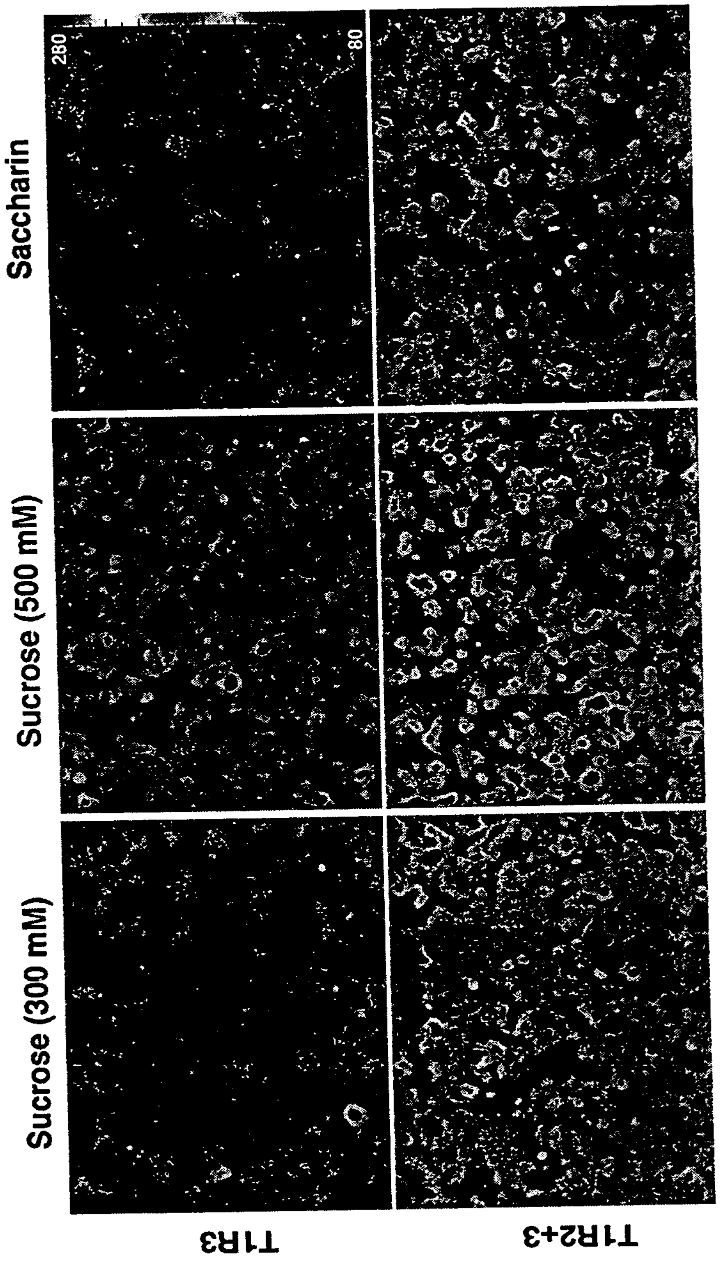

Figure 6

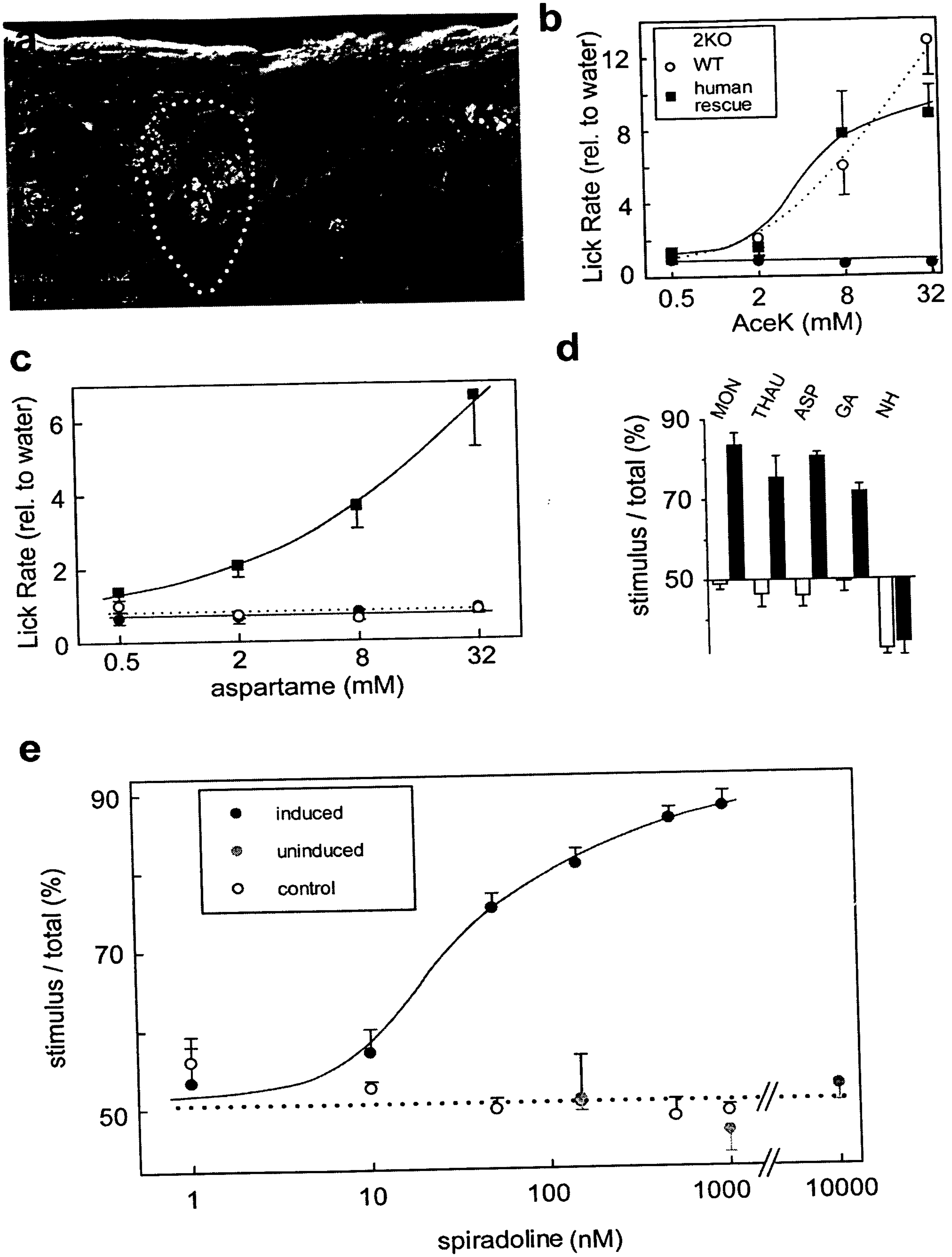
a
b
2KO
WT
human rescue
Lick Rate (rel. to water)
0
4
8
12
0.5
2
8
32
AceK (mM)
c
Lick Rate (rel. to water)
0
2
4
6
0.5
2
8
32
aspartame (mM)
d
MON
THAU
ASP
GA
NH
stimulus / total (%)
90
70
50
e
induced
uninduced
control
stimulus / total (%)
90
70
50
1
10
100
1000
10000
spiradoline (nM)

Figure 7

hT1R1 SEQ ID NO:26

ATGCTGCTCTGCACGGCTCGCCTGGTCGGCCTGCAGCTTCTCATTTCCTGCTGCTGGGCCTT
TGCCTGCCATAGCACGGAGTCTTCTCCTGACTTCACCCTCCCCGGAGATTACCTCCTGGCA
GGCCTGTTCCCTCTCCATTCTGGCTGTCTGCAGGTGAGGCACAGACCCGAGGTGACCCTGT
GTGACAGGTCTTGTAGCTTCAATGAGCATGGCTACCACCTCTTCCAGGCTATGCGGCTTGG
GGTTGAGGAGATAAACAACTCCACGGCCCTGCTGCCCAACATCACCCTGGGGTACCAGCT
GTATGATGTGTGTTCTGACTCTGCCAATGTGTATGCCACGCTGAGAGTGCTCTCCCTGCCA
GGGCAACACCACATAGAGCTCCAAGGAGACCTTCTCCACTATTCCCCTACGGTGCTGGCAG
TGATTGGGCCTGACAGCACCAACCGTGCTGCCACCACAGCCGCCCTGCTGAGCCCTTTCCT
GGTGCCCATGATTAGCTATGCGGCCAGCAGCGAGACGCTCAGCGTGAAGCGGCAGTATCC
CTCTTTCCTGCGCACCATCCCCAATGACAAGTACCAGGTGGAGACCATGGTGCTGCTGCTG
CAGAAGTTCGGGTGGACCTGGATCTCTCTGGTTGGCAGCAGTGACGACTATGGGCAGCTA
GGGGTGCAGGCACTGGAGAACCAGGCCACTGGTCAGGGGATCTGCATTGCTTTCAAGGAC
ATCATGCCCTTCTCTGCCCAGGTGGGCGATGAGAGGATGCAGTGCCTCATGCGCCACCTGG
CCCAGGCCGGGGCCACCGTCGTGGTTGTTTTTTCCAGCCGGCAGTTGGCCAGGGTGTTTTT
CGAGTCCGTGGTGCTGACCAACCTGACTGGCAAGGTGTGGGTCGCCTCAGAAGCCTGGGC
CCTCTCCAGGCACATCACTGGGGTGCCCGGGATCCAGCGCATTGGGATGGTGCTGGGCGT
GGCCATCCAGAAGAGGGCTGTCCCTGGCCTGAAGGCGTTTGAAGAAGCCTATGCCCGGGC
AGACAAGAAGGCCCCTAGGCCTTGCCACAAGGGCTCCTGGTGCAGCAGCAATCAGCTCTG
CAGAGAATGCCAAGCTTTCATGGCACACACGATGCCCAAGCTCAAAGCCTTCTCCATGAGT
TCTGCCTACAACGCATACCGGGCTGTGTATGCGGTGGCCCATGGCCTCCACCAGCTCCTGG
GCTGTGCCTCTGGAGCTTGTTCCAGGGGCCGAGTCTACCCCTGGCAGCTTTTGGAGCAGAT
CCACAAGGTGCATTTCCTTCTACACAAGGACACTGTGGCGTTTAATGACAACAGAGATCCC
CTCAGTAGCTATAACATAATTGCCTGGGACTGGAATGGACCCAAGTGGACCTTCACGGTCC
TCGGTTCCTCCACATGGTCTCCAGTTCAGCTAAACATAAATGAGACCAAAATCCAGTGGCA
CGGAAAGGACAACCAGGTGCCTAAGTCTGTGTGTTCCAGCGACTGTCTTGAAGGGCACCA
GCGAGTGGTTACGGGTTTCCATCACTGCTGCTTTGAGTGTGTGCCCTGTGGGGCTGGGACC
TTCCTCAACAAGAGTGACCTCTACAGATGCCAGCCTTGTGGGAAAGAAGAGTGGGCACCT
GAGGGAAGCCAGACCTGCTTCCCGCGCACTGTGGTGTTTTTGGCTTTGCGTGAGCACACCT
CTTGGGTGCTGCTGGCAGCTAACACGCTGCTGCTGCTGCTGCTTGGGACTGCTGGCCT
GTTTGCCTGGCACCTAGACACCCCTGTGGTGAGGTCAGCAGGGGGCCGCCTGTGCTTTCTT
ATGCTGGGCTCCCTGGCAGCAGGTAGTGGCAGCCTCTATGGCTTCTTTGGGGAACCCACAA
GGCCTGCGTGCTTGCTACGCCAGGCCCTCTTTGCCCTTGGTTTCACCATCTTCCTGTCCTGC
CTGACAGTTCGCTCATTCCAACTAATCATCATCTTCAAGTTTTCCACCAAGGTACCTACATT
CTACCACGCCTGGGTCCAAAACCACGGTGCTGGCCTGTTTGTGATGATCAGCTCAGCGGCC
CAGCTGCTTATCTGTCTAACTTGGCTGGTGGTGTGGACCCCACTGCCTGCTAGGGAATACC
AGCGCTTCCCCCATCTGGTGATGCTTGAGTGCACAGAGACCAACTCCCTGGGCTTCATACT
GGCCTTCCTCTACAATGGCCTCCTCTCCATCAGTGCCTTTGCCTGCAGCTACCTGGGTAAG
GACTTGCCAGAGAACTACAACGAGGCCAAATGTGTCACCTTCAGCCTGCTCTTCAACTTCG

TGTCCTGGATCGCCTTCTTCACCACGGCCAGCGTCTACGACGGCAAGTACCTGCCTGCGGC
CAACATGATGGCTGGGCTGAGCAGCCTGAGCAGCGGCTTCGGTGGGTATTTTCTGCCTAAG
TGCTACGTGATCCTCTGCCGCCCAGACCTCAACAGCACAGAGCACTTCCAGGCCTCCATTC
AGGACTACACGAGGCGCTGCGGCTCCACCTGA

Figure 8

hT1R1 SEQ ID NO:27

MLLCTARLVGLQLLISCCWAFACHSTESSPDFTLPGDYLLAGLFPLHSGCLQVRHRPEVTLCDR
SCSFNEHGYHLFQAMRLGVEEINNSTALLPNITLGYQLYDVCSDSANVYATLRVLSLPGQHHIE
LQGDLLHYSPTVLAVIGPDSTNRAATTAALLSPFLVPMISYAASSETLSVKRQYPSFLRTIPNDK
YQVETMVLLLQKFGWTWISLVGSSDDYGQLGVQALENQATGQGICIAFKDIMPFSAQVGDER
MQCLMRHLAQAGATVVVVFSSRQLARVFFESVVLTNLTGKVWVASEAWALSRHITGVPGIQR
IGMVLGVAIQKRAVPGLKAFEEAYARADKKAPRPCHKGSWCSSNQLCRECQAFMAHTMPKL
KAFSMSSAYNAYRAVYAVAHGLHQLLGCASGACSRGRVYPWQLLEQIHKVHFLLHKDTVAF
NDNRDPLSSYNIIAWDWNGPKWTFTVLGSSTWSPVQLNINETKIQWHGKDNQVPKSVCSSDC
LEGHQRVVTGFHHCCFECVPCGAGTFLNKSDLYRCQPCGKEEWAPEGSQTCFPRTVVFLALRE
HTSWVLLAANTLLLLLLLGTAGLFAWHLDTPVVRSAGGRLCFLMLGSLAAGSGSLYGFFGEPT
RPACLLRQALFALGFTIFLSCLTVRSFQLIIIFKFSTKVPTFYHAWVQNHGAGLFVMISSAAQLLI
CLTWLVVWTPLPAREYQRFPHLVMLECTETNSLGFILAFLYNGLLSISAFACSYLGKDLPENYN
EAKCVTFSLLFNFVSWIAFFTTASVYDGKYLPAANMMAGLSSLSSGFGGYFLPKCYVILCRPDL
NSTEHFQASIQDYTRRCGST

Figure 9

Human T1R2 nucleotide sequence--SEQ ID NO:28

```
   1 ATGGGGCCCA GGGCAAAGAC CATCTGCTCC CTGTTCTTCC TCCTATGGGT CCTGGCTGAG
  61 CCGGCTGAGA ACTCGGACTT CTACCTGCCT GGGGATTACC TCCTGGGTGG CCTCTTCTCC
 121 CTCCATGCCA ACATGAAGGG CATTGTTCAC CTTAACTTCC TGCAGGTGCC CATGTGCAAG
 181 GAGTATGAAG TGAAGGTGAT AGGCTACAAC CTCATGCAGG CCATGCGCTT CGCGGTGGAG
 241 GAGATCAACA ATGACAGCAG CCTGCTGCCT GGTGTGCTGC TGGGCTATGA GATCGTGGAT
 301 GTGTGCTACA TCTCCAACAA TGTCCAGCCG GTGCTCTACT TCCTGGCACA CGAGGACAAC
 361 CTCCTTCCCA TCCAAGAGGA CTACAGTAAC TACATTTCCC GTGTGGTGGC TGTCATTGGC
 421 CCTGACAACT CCGAGTCTGT CATGACTGTG GCCAACTTCC TCTCCCTATT TCTCCTTCCA
 481 CAGATCACCT ACAGCGCCAT CAGCGATGAG CTGCGAGACA AGGTGCGCTT CCCGGCTTTG
 541 CTGCGTACCA CACCCAGCGC CGACCACCAC GTCGAGGCCA TGGTGCAGCT GATGCTGCAC
 601 TTCCGCTGGA ACTGGATCAT TGTGCTGGTG AGCAGCGACA CCTATGGCCG CGACAATGGC
 661 CAGCTGCTTG GCGAGCGCGT GGCCCGGCGC GACATCTGCA TCGCCTTCCA GGAGACGCTG
 721 CCCACACTGC AGCCCAACCA GAACATGACG TCAGAGGAGC GCCAGCGCCT GGTGACCATT
 781 GTGGACAAGC TGCAGCAGAG CACAGCGCGC GTCGTGGTCG TGTTCTCGCC CGACCTGACC
 841 CTGTACCACT TCTTCAATGA GGTGCTGCGC CAGAACTTCA CGGGCGCCGT GTGGATCGCC
 901 TCCGAGTCCT GGGCCATCGA CCCGGTCCTG CACAACCTCA CGGAGCTGGG CCACTTGGGC
 961 ACCTTCCTGG GCATCACCAT CCAGAGCGTG CCCATCCCGG GCTTCAGTGA GTTCCGCGAG
1021 TGGGGCCCAC AGGCTGGGCC GCCACCCCTC AGCAGGACCA GCCAGAGCTA TACCTGCAAC
1081 CAGGAGTGCG ACAACTGCCT GAACGCCACC TTGTCCTTCA ACACCATTCT CAGGCTCTCT
1141 GGGGAGCGTG TCGTCTACAG CGTGTACTCT GCGGTCTATG CTGTGGCCCA TGCCCTGCAC
1201 AGCCTCCTCG GCTGTGACAA AAGCACCTGC ACCAAGAGGG TGGTCTACCC CTGGCAGCTG
1261 CTTGAGGAGA TCTGGAAGGT CAACTTCACT CTCCTGGACC ACCAAATCTT CTTCGACCCG
1321 CAAGGGGACG TGGCTCTGCA CTTGGAGATT GTCCAGTGGC AATGGGACCG GAGCCAGAAT
1381 CCCTTCCAGA GCGTCGCCTC CTACTACCCC CTGCAGCGAC AGCTGAAGAA CATCCAAGAC
1441 ATCTCCTGGC ACACCGTCAA CAACACGATC CCTATGTCCA TGTGTTCCAA GAGGTGCCAG
1501 TCAGGGCAAA AGAAGAAGCC TGTGGGCATC CACGTCTGCT GCTTCGAGTG CATCGACTGC
1561 CTTCCCGGCA CCTTCCTCAA CCACACTGAA GATGAATATG AATGCCAGGC CTGCCCGAAT
1621 AACGAGTGGT CCTACCAGAG TGAGACCTCC TGCTTCAAGC GGCAGCTGGT CTTCCTGGAA
1681 TGGCATGAGG CACCCACCAT CGCTGTGGCC CTGCTGGCCG CCCTGGGCTT CCTCAGCACC
1741 CTGGCCATCC TGGTGATATT CTGGAGGCAC TTCCAGACAC CCATAGTTCG CTCGGCTGGG
1801 GGCCCCATGT GCTTCCTGAT GCTGACACTG CTGCTGGTGG CATACATGGT GGTCCCGGTG
1861 TACGTGGGGC CGCCCAAGGT CTCCACCTGC CTCTGCCGCC AGGCCCTCTT TCCCCTCTGC
1921 TTCACAATTT GCATCTCCTG TATCGCCGTG CGTTCTTTCC AGATCGTCTG CGCCTTCAAG
1981 ATGGCCAGCC GCTTCCCACG CGCCTACAGC TACTGGGTCC GCTACCAGGG GCCCTACGTC
2041 TCTATGGCAT TTATCACGGT ACTCAAAATG GTCATTGTGG TAATTGGCAT GCTGGCCACG
2101 GGCCTCAGTC CCACCACCCG TACTGACCCC GATGACCCCA AGATCACAAT TGTCTCCTGT
2161 AACCCCAACT ACCGCAACAG CCTGCTGTTC AACACCAGCC TGGACCTGCT GCTCTCAGTG
2221 GTGGGTTTCA GCTTCGCCTA CATGGGCAAA GAGCTGCCCA CCAACTACAA CGAGGCCAAG
2281 TTCATCACCC TCAGCATGAC CTTCTATTTC ACCTCATCCG TCTCCCTCTG CACCTTCATG
2341 TCTGCCTACA GCGGGGTGCT GGTCACCATC GTGGACCTCT TGGTCACTGT GCTCAACCTC
2401 CTGGCCATCA GCCTGGGCTA CTTCGGCCCC AAGTGCTACA TGATCCTCTT CTACCCGGAG
2461 CGCAACACGC CCGCCTACTT CAACAGCATG ATCCAGGGCT ACACCATGAG GAGGGACTAG
```

Figure 10

Figure 11

Human T1R2 amino acid sequence--SEQ ID NO: 29

MGPRAKTICSLFFLLWVLAEPAENSDFYLPGDYLLGGLFSLHANMKGIVHLNFLQVPMCKEY
EVKVIGYNLMQAMRFAVEEINNDSSLLPGVLLGYEIVDVCYISNNVQPVLYFLAHEDNLLPI
QEDYSNYISRVVAVIGPDNSESVMTVANFLSLFLLPQITYSAISDELRDKVRFPALLRTTPS
ADHHVEAMVQLMLHFRWNWIIVLVSSDTYGRDNGQLLGERVARRDICIAFQETLPTLQPNQN
MTSEERQRLVTIVDKLQQSTARVVVVFSPDLTLYHFFNEVLRQNFTGAVWIASESWAIDPVL
HNLTELGHLGTFLGITIQSVPIPGFSEFREWGPQAGPPPLSRTSQSYTCNQECDNCLNATLS
FNTILRLSGERVVYSVYSAVYAVAHALHSLLGCDKSTCTKRVVYPWQLLEEIWKVNFTLLDH
QIFFDPQGDVALHLEIVQWQWDRSQNPFQSVASYYPLQRQLKNIQDISWHTVNNTIPMSMCS
KRCQSGQKKKPVGIHVCCFECIDCLPGTFLNHTEDEYECQACPNNEWSYQSETSCFKRQLVF
LEWHEAPTIAVALLAALGFLSTLAILVIFWRHFQTPIVRSAGGPMCFLMLTLLLVAYMVVPV
YVGPPKVSTCLCRQALFPLCFTICISCIAVRSFQIVCAFKMASRFPRAYSYWVRYQGPYVSM
AFITVLKMVIVVIGMLARPQSHPRTDPDDPKITIVSCNPNYRNSLLFNTSLDLLLSVVGFSF
AYMGKELPTNYNEAKFITLSMTFYFTSSVSLCTFMSAYSGVLVTIVDLLVTVLNLLAISLGY
FGPKCYMILFYPERNTPAYFNSMIQGYTMRRD

Figure 11

hT1R3 : SEQ ID NO: 30

ATGCTGGGCCCTGCTGTCCTGGGCCTCAGCCTCTGGGCTCTCCTGCACCCTGGGACGGGG
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TCCCCCTGGGCGAGGCCGAGGAGGCTGGCCTCCGCAGCCGGACACGGCCCAGCAGCCCTG
TGTGCACCAGGTTCTCCTCAAACGGCCTGCTCTGGGCACTGGCCATGAAAATGGCCGTGGA
GGAGATCAACAACAAGTCGGATCTGCTGCCCGGGCTGCGCCTGGGCTACGACCTCTTTGAT
ACGTGCTCGGAGCCTGTGGTGGCCATGAAGCCCAGCCTCATGTTCCTGGCCAAGGCAGGC
AGCCGCGACATCGCCGCCTACTGCAACTACACGCAGTACCAGCCCCGTGTGCTGGCTGTCA
TCGGGCCCCACTCGTCAGAGCTCGCCATGGTCACCGGCAAGTTCTTCAGCTTCTTCCTCAT
GCCCCACTACGGTGCTAGCATGGAGCTGCTGAGCGCCCGGGAGACCTTCCCCTCCTTCTTC
CGCACCGTGCCCAGCGACCGTGTGCAGCTGACGGCCGCCGCGGAGCTGCTGCAGGAGTTC

GGCTGGAACTGGGTGGCCGCCCTGGGCAGCGACGACGAGTACGGCCGGCAGGGCCTGAGC
ATCTTCTCGGCCCTGGCCGCGGCACGCGGCATCTGCATCGCGCACGAGGGCCTGGTGCCGC
TGCCCCGTGCCGATGACTCGCGGCTGGGGAAGGTGCAGGACGTCCTGCACCAGGTGAACC
AGAGCAGCGTGCAGGTGGTGCTGCTGTTCGCCTCCGTGCACGCCGCCCACGCCCTCTTCAA
CTACAGCATCAGCAGCAGGCTCTCGCCCAAGGTGTGGGTGGCCAGCGAGGCCTGGCTGAC
CTCTGACCTGGTCATGGGGCTGCCCGGCATGGCCCAGATGGGCACGGTGCTTGGCTTCCTC
CAGAGGGGTGCCCAGCTGCACGAGTTCCCCCAGTACGTGAAGACGCACCTGGCCCTGGCC
ACCGACCCGGCCTTCTGCTCTGCCCTGGGCGAGAGGGAGCAGGGTCTGGAGGAGGACGTG
GTGGGCCAGCGCTGCCCGCAGTGTGACTGCATCACGCTGCAGAACGTGAGCGCAGGGCTA
AATCACCACCAGACGTTCTCTGTCTACGCAGCTGTGTATAGCGTGGCCCAGGCCCTGCACA
ACACTCTTCAGTGCAACGCCTCAGGCTGCCCCGCGCAGGACCCCGTGAAGCCCTGGCAGCT
CCTGGAGAACATGTACAACCTGACCTTCCACGTGGGCGGGCTGCCGCTGCGGTTCGACAGC
AGCGGAAACGTGGACATGGAGTACGACCTGAAGCTGTGGGTGTGGCAGGGCTCAGTGCCC
AGGCTCCACGACGTGGGCAGGTTCAACGGCAGCCTCAGGACAGAGCGCCTGAAGATCCGC
TGGCACACGTCTGACAACCAGAAGCCCGTGTCCCGGTGCTCGCGGCAGTGCCAGGAGGGC
CAGGTGCGCCGGGTCAAGGGGTTCCACTCCTGCTGCTACGACTGTGTGGACTGCGAGGCG
GGCAGCTACCGGCAAAACCCAGACGACATCGCCTGCACCTTTTGTGGCCAGGATGAGTGG
TCCCCGGAGCGAAGCACACGCTGCTTCCGCCGCAGGTCTCGGTTCCTGGCATGGGGCGAGC
CGGCTGTGCTGCTGCTGCTCCTGCTGCTGAGCCTGGCGCTGGGCCTTGTGCTGGCTGCTTT
GGGGCTGTTCGTTCACCATCGGGACAGCCCACTGGTTCAGGCCTCGGGGGGGCCCCTGGCC
TGCTTTGGCCTGGTGTGCCTGGGCCTGGTCTGCCTCAGCGTCCTCCTGTTCCCTGGCCAGCC
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AGCACACTCTTCCTGCAGGCGGCCGAGATCTTCGTGGAGTCAGAACTGCCTCTGAGCTGGG
CAGACCGGCTGAGTGGCTGCCTGCGGGGGCCCTGGGCCTGGCTGGTGGTGCTGCTGGCCA
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GGACTGGCACATGCTGCCCACGGAGGCGCTGGTGCACTGCCGCACACGCTCCTGGGTCAG
CTTCGGCCTAGCGCACGCCACCAATGCCACGCTGGCCTTTCTCTGCTTCCTGGGCACTTTCC
TGGTGCGGAGCCAGCCGGGCTGCTACAACCGTGCCCGTGGCCTCACCTTTGCCATGCTGGC
CTACTTCATCACCTGGGTCTCCTTTGTGCCCCTCCTGGCCAATGTGCAGGTGGTCCTCAGGC
CCGCCGTGCAGATGGGCGCCCTCCTGCTCTGTGTCCTGGGCATCCTGGCTGCCTTCCACCT
GCCCAGGTGTTACCTGCTCATGCGGCAGCCAGGGCTCAACACCCCCGAGTTCTTCCTGGGA
GGGGGCCCTGGGGATGCCCAAGGCCAGAATGACGGGAACACAGGAAATCAGGGGAAACA
TGAGTGA

Figure 12

hT1R3 SEQ ID NO: 31

MLGPAVLGLSLWALLHPGTGAPLCLSQQLRMKGDYVLGGLFPLGEAEEAGLRSRTRPSSPVCT
RFSSNGLLWALAMKMAVEEINNKSDLLPGLRLGYDLFDTCSEPVVAMKPSLMFLAKAGSRDI
AAYCNYTQYQPRVLAVIGPHSSELAMVTGKFFSFFLMPHYGASMELLSARETFPSFFRTVPSDR
VQLTAAAELLQEFGWNWVAALGSDDEYGRQGLSIFSALAAARGICIAHEGLVPLPRADDSRLG

KVQDVLHQVNQSSVQVVLLFASVHAAHALFNYSISSRLSPKVWVASEAWLTSDLVMGLPGM
AQMGTVLGFLQRGAQLHEFPQYVKTHLALATDPAFCSALGEREQGLEEDVVGQRCPQCDCIT
LQNVSAGLNHHQTFSVYAAVYSVAQALHNTLQCNASGCPAQDPVKPWQLLENMYNLTFHVG
GLPLRFDSSGNVDMEYDLKLWVWQGSVPRLHDVGRFNGSLRTERLKIRWHTSDNQKPVSRCS
RQCQEGQVRRVKGFHSCCYDCVDCEAGSYRQNPDDIACTFCGQDEWSPERSTRCFRRRSRFLA
WGEPAVLLLLLLLSLALGLVLAALGLFVHHRDSPLVQASGGPLACFGLVCLGLVCLSVLLFPG
QPSPARCLAQQPLSHLPLTGCLSTLFLQAAEIFVESELPLSWADRLSGCLRGPWAWLVVLLAML
VEVALCTWYLVAFPPEVVTDWHMLPTEALVHCRTRSWVSFGLAHATNATLAFLCFLGTFLVR
SQPGCYNRARGLTFAMLAYFITWVSFVPLLANVQVVLRPAVQMGALLLCVLGILAAFHLPRCY
LLMRQPGLNTPEFFLGGGPGDAQGQNDGNTGNQGKHE

Figure 13